



**Matrix Environmental, Inc.**

1880 W. Winchester Rd., Suite 111

Libertyville, Illinois 60048

Phone: 847-367-6835

Fax: 847-367-6845

10 January 2007

Mr. Patrick McNulty  
Public Health Administrator  
McHenry County Health Department  
2200 N. Seminary Avenue  
Woodstock, IL 60098

US EPA RECORDS CENTER REGION 5



1000372

Re: Restriction on the Issuance of Well Permits in the Union, Illinois Area

Dear Mr. McNulty:

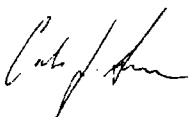
The Techalloy Company (Techalloy) has extracted groundwater from shallow groundwater in the northern area of Union, IL since 2000. In 1996 Techalloy requested that McHenry County restrict shallow groundwater usage for drinking purposes. Since that request Central Sod has added high capacity wells that have changed the traits of the groundwater. Techalloy is currently reviewing the boundaries of the shallow groundwater restrictions.

Twelve (12) private wells have been monitored downstream (northwest) of the Techalloy contamination plume to determine the effectiveness of the extraction wells. In recent years Central Sod has added two (2) high capacity agricultural extraction wells that are potentially pulling the contamination plume past the original well restriction area. Wells downgradient of Techalloy's extraction wells have shown contamination levels of trichloroethene above maximum contamination level (MCL) of 5 micrograms per Liter ( $\mu\text{g/L}$ ). Therefore, Techalloy, per the request of the U.S. Environmental Protection Agency (USEPA), requests that the groundwater restriction be expanded and that restriction for issuance of well permits be extended laterally in the Sections 4, 32, and 33 of Seneca Township south to Illinois Highway Route 176. The attached figure shows the contamination levels for trichloroethene as of 2005 and also the requested restriction zone. In order to provide a zone between the impacted groundwater and the potable wells, a clean buffer zone has been added, which may make the restricted area look much larger. The restriction area has extended vertically the entire depth of the first aquifer (approximately ten (10) to eighty-five (85) feet below ground surface).

Techalloy would like an exception to this permit restriction. Techalloy in the future may need to install an additional extraction well on the restricted property. In addition, Techalloy is concerned that the County's approval of additional high capacity irrigation wells may negatively impact the remediation of the existing groundwater contaminant plume. For this reason Techalloy is requesting that any approval by the County of high capacity irrigation wells inside or outside the restricted area, first be consulted with Techalloy to assess potential negative impacts to the groundwater remediation system.

Thank you very much for your consideration and cooperation. If you have any questions or comments please contact Scott Carr at 815-923-2116 or me at 847-367-6835.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carlos J. Serna', written in a cursive style.

Carlos J. Serna, P.G.  
**Matrix Environmental, Inc**

Attachment: Figure

P 140 783 848

US Postal Service

# Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to

Mr. Henry Lopez

Street & Number

376 Franklin Turnpike

Post Office, State, & ZIP Code

Mohawk, New Jersey 07430

Postage

\$ 32

Certified Fee

1.35

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

1.10

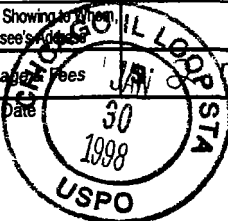
Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees

7.77

Postmark or Date

30  
1998



DAE-95

PS Form 3800, April 1995

B. Buller

**Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services (See front).**

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier (*no extra charge*).
2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
6. Save this receipt and present it if you make an inquiry.

140 783 849

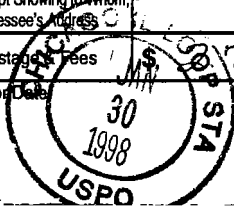
3 Postal Service

# Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Mr. Carlos Serna	
Street & Number	
Suite 400 3 Hawthorne Parkway	
Post Office, State, & ZIP Code	
Veron Hills, IL 60061	
Postage	\$ 32
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 77
Postmark or Date	



DRF-97

PS Form 3800, April 1995

B. Bullock

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services (See front).

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier (no extra charge).
2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.
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6. Save this receipt and present it if you make an inquiry.

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Print your name, address, and ZIP Code in this box ●

U.S. EPA  
WPTD DRE-9J  
77 W. JACKSON BLVD.,  
CHICAGO, IL 60604

*B. Bullock*



**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

**3. Article Addressed to:**

Mr. Carlos Serna  
Roy F. Weston, Inc.  
Suite 400  
3 Hawthorne Parkway  
Vernon Hills, IL 60061-1450

**4a. Article Number**

P- 140 - 783 - 849

**4b. Service Type**

- |   |   |
|---|---|
| <input type="checkbox"/> Registered                     | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail                   | <input type="checkbox"/> Insured              |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD                  |

**7. Date of Delivery**

2/3/98

**5. Received By: (Print Name)****8. Addressee's Address (Only if requested and fee is paid)****6. Signature: (Addressee or Agent)**

X

*Glenn*



B.1.1

D.3.2

JAN 30 1998

DRE-9J

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Henry Lopes  
Techalloy Company, Inc.  
370 Franklin Turnpike  
Mahwah, New Jersey 07430

Mr. Carlos Serna  
Roy F. Weston, Inc.  
Suite 400  
3 Hawthorne Parkway  
Vernon Hills, Illinois 60061-1450

Re: Techalloy Company, Inc., Union, Illinois  
Groundwater Recovery System Upgrade  
Administrative Order on Consent  
Docket No. V-W-07-93  
ILD 005 178 975

Dear Mr. Lopes and Mr. Serna:

As stated in my December 1997 letter, Techalloy is required to submit all necessary permits for the Groundwater Recovery System upgrade by January 30, 1998. Within fifteen (15) days of receipt of this letter, Techalloy shall submit copies of all permit applications for the system upgrade to the United States Environmental Protection Agency.

If you have any questions please call me at (312) 886-4568.

Sincerely,

William Buller, Project Coordinator  
Enforcement and Compliance Assurance Branch  
Waste, Pesticides and Toxics Division  
MI/WI Section

cc: Kevin Lesko, IEPA  
Todd Quillen, Techlaw



Roy F. Weston, Inc.  
Suite 400  
3 Hawthorn Parkway  
Vernon Hills, Illinois 60061-1450  
847-918-4000 • Fax 847-918-4055

19 September 1996

ILD 005 ~~476~~ 178 975

Mr. William Buller  
U.S. EPA, Region V  
RCRA Enforcement Branch (HRE-8J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604

D.Z.9

Work Order No. 01989-009-002

Re: Restrictions on the Issuance of Well Permits North of Union, Illinois.

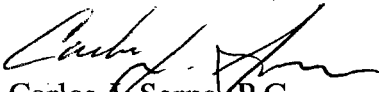
Dear Mr. Buller:

A phone conversation on September 18, 1996 with Mr. Patrick McNulty, Director of Environmental Health for McHenry County Department of Health (MCDH), confirmed the implementation of restriction on the issuance of well permits in the above-mentioned area. Additionally, Mr. McNulty stated that the Illinois Department of Public Health Water Well Code will allow property owners or other individuals to utilize any proposed well in the area of concern if a water treatment device is employed.

Roy F. Weston, Inc. (WESTON®) has provided the MCDH with all the information that was requested by MCDH in a letter dated May 31, 1996. A copy of the WESTON's letter with the attachments was forwarded by WESTON to the United States Environmental Protection Agency (U.S. EPA) and the Illinois Environmental Protection Agency (IEPA) on June 10, 1996. Additionally a copy of the MCDH letter, WESTON's letter and attachments, are being included with this letter.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4000.

Very truly yours,  
ROY F. WESTON, INC.

  
Carlos A. Serna, P.G.  
Senior Project Manager

Attachments

cc: Kevin Lesko, IEPA - w/o attachments  
Henry Lopes, Techalloy - w/o attachments  
David Williams, Techalloy - w/o attachments  
Scott Carr, Techalloy - w/o attachments

RECEIVED  
SEP 24 1996

OFFICE OF RCRA  
WASTE MANAGEMENT DIVISION  
EPA, REGION V



Roy F. Weston, Inc.  
Suite 400  
3 Hawthorn Parkway  
Vernon Hills, Illinois 60061-1450  
847-918-4000 • Fax 847-918-4055

19 September 1996

ILD 005 ~~476~~ 178 975

Mr. William Buller  
U.S. EPA, Region V  
RCRA Enforcement Branch (HRE-8J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604

D.Z.9

Work Order No. 01989-009-002

Re: Restrictions on the Issuance of Well Permits North of Union, Illinois.

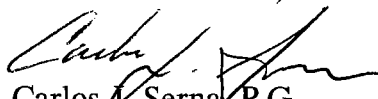
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Very truly yours,  
ROY F. WESTON, INC.

  
Carlos A. Serna, P.G.  
Senior Project Manager

Attachments

cc: Kevin Lesko, IEPA - w/o attachments  
Henry Lopes, Techalloy - w/o attachments  
David Williams, Techalloy - w/o attachments  
Scott Carr, Techalloy - w/o attachments

RECEIVED  
SEP 24 1996

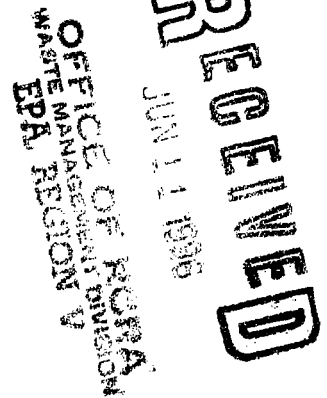
OFFICE OF RCRA  
WASTE MANAGEMENT DIVISION  
EPA, REGION V



Roy F. Weston, Inc.  
Suite 400  
3 Hawthorn Parkway  
Vernon Hills, Illinois 60061-1450  
847-918-4000 • Fax 847-918-4055

ILD 005 178 876

10 June 1996



Mr. William Buller  
U.S. EPA Region V  
RCRA Enforcement Branch (HRE-8J)  
77 West Jackson Blvd.  
Chicago, IL 60604

Re: Restriction on the Issuance of Well Permits in Union Area

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON®) is in receipt of a letter (dated 31 May, 1996) from Mr. Patrick McNulty, Director of the McHenry County Department of Health (MCDH) regarding the Department's receipt of a letter from WESTON requesting restriction on the issuance of new well permits in the Union area. As you may recall, WESTON had sent a letter to the MCDH on March 21, 1996 asking for a restriction in the issuance of new well permits in an area over half-a-mile north-northwest of the Techalloy facility. The MCDH letter of 31 May, 1996 requested information regarding the direction of the groundwater flow, geologic cross-sections and monitoring well locations.


In a letter (dated 10 June 1996) addressed to Mr. Patrick McNulty, the Director of MCDH, WESTON has enclosed the following:

- Figure showing the direction of the groundwater flow (Figure 2-2 of RFI Report).
- Two figures showing the geologic cross-sections (Figures 3-4 and 3-5 of the Supplemental RCRA Facility Investigation Report)
- Figure showing the groundwater sampling locations and concentration of VOCs in groundwater (Figure 3-2 of Supplemental RFI Report).

If you have any questions, please feel free to call me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

  
Carlos J. Serna, P.G.  
Senior Project Manager

Encl: copy of letter to MCDH w/figures

cc: Mr. Kevin Lesko, IEPA  
Mr. Henry Lopes, Techalloy  
Mr. David Williams, Techalloy  
Mr. Scott Carr, Techalloy





Roy F. Weston, Inc.  
Suite 400  
3 Hawthorn Parkway  
Vernon Hills, Illinois 60061-1450  
847-918-4000 • Fax 847-918-4055

10 June 1996

Mr. Patrick McNulty  
Director of Environmental Health  
McHenry County Health Department  
2200 N. Seminary Avenue  
Woodstock, IL 60098

Re: Additional Information Regarding the Restriction on the Issuance of  
Well Permits in the Union Area

Dear Mr. McNulty:

Roy F. Weston, Inc. (WESTON®) is in receipt of your letter dated May 31, 1996 acknowledging the receipt of WESTON's letter dated 21 March, 1996 regarding the restriction on the issuance of permits in the above-referenced area.

Pursuant to your above-referenced letter, WESTON is enclosing the following:

- Figure showing the direction of the groundwater flow.
- Two figures showing the geologic cross-sections.
- Figure showing the sampling locations and concentration of chlorinated hydrocarbons in groundwater.

As you will note from these figures, the chlorinated hydrocarbons occur in the sand and gravel aquifer originating from the Techalloy facility and migrating off-site, as indicated.

If you have any questions or need any additional information, please feel to call me at (847) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.  
Senior Project Manager

Encl: 4 figures

cc: Mr. William Buller, U.S. EPA  
Mr. Kevin Lesko, IEPA  
Mr. Henry Lopes, Techalloy  
Mr. David Williams, Techalloy  
Mr. Scott Carr, Techalloy





Roy F. Weston, Inc.  
Suite 400  
3 Hawthorn Parkway  
Vernon Hills, Illinois 60061-1450  
847-918-4000 • Fax 847-918-4055

21 March 1996

Mr. Patrick McNulty  
Director of Environmental Health  
McHenry County Health Department  
2200 N. Seminary Avenue  
Woodstock, IL 60098

Re: Restriction on the Issuance of Well Permits in the Union Area

Dear Mr. McNulty,

Roy F. Weston, Inc. (WESTON®) recently completed a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) for Techalloy Company, Inc., located at 6501 Olson Road in Union, Illinois. Following completion of this investigation, WESTON submitted a Draft RFI Report to the U.S. Environmental Protection Agency (U.S. EPA) in August, 1995. The findings indicated that the groundwater within the sand and gravel aquifer from the Techalloy facility to off-site portions of Sections 4, 32, and 33 are impacted by volatile organic carbon (VOC) compounds. The sand and gravel aquifer is present from approximately 10 to 85 feet below ground surface.

Under the directive of the U.S. EPA, Techalloy has been monitoring 12 private wells in the area downgradient to the direction of the plume migration (northwest). The U.S. EPA has also directed Techalloy to request from your office a restriction for the issuance of well permits in the above mentioned area. Specifically, the area indicated on the enclosed figure shows the area to be restricted within the sand and gravel aquifer.

If you have any questions or need additional information, please feel free to call me at (847) 918-4000.

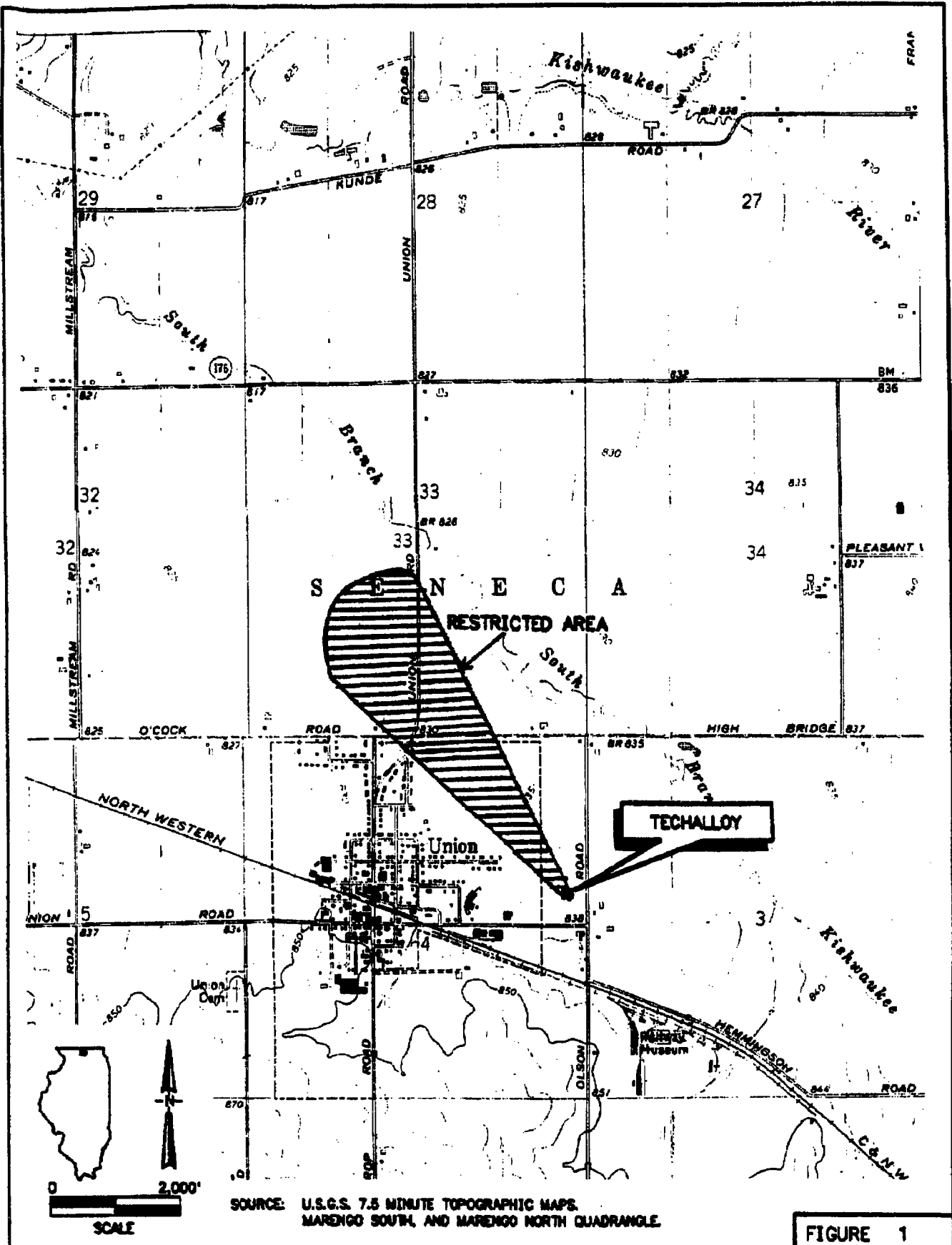
Very truly yours,

ROY F. WESTON, INC.

Carlos E. Serina, P.G.  
Senior Project Manager

Enclosure: Figure

cc: Mr. William Buller, U.S. EPA  
Mr. Kevin Lesko, IEPA  
Mr. Henry Lopes, Techalloy  
Mr. David Williams, Techalloy  
Mr. Scott Carr, Techalloy



**WESTON**  
MUNICIPAL ENGINEERS/CONSULTANTS

Three Hawthorn Parkway  
Vernon Hills, Illinois  
60061

**RESTRICTED AREA**  
(FOR ISSUANCE OF WELL PERMITS)  
**TECHALLOY COMPANY, INC.**  
Union, Illinois